KVS AGRA REGION

Worksheet -1 (Heron's Formula)

Q.1 find the length of each side of an equilateral triangle having an area of $9\sqrt{3}cm^2$.

Q.2 Find the area of an isosceles triangle having base 2 cm and the length of one of them equal sides 4 cm.

Q.3 How many times the area is changed when the sides of the triangle are doubled.

Q.4 If the perimeter of an isosceles triangle is 11cm and its base is 5cm, its area is $5/4\sqrt{11}cm^2$. State true or false and give reason.

Q.5 If the area of an equilateral triangle is $16\sqrt{3}cm^2$, then find the perimeter of the triangle.

Q.6 The cost of levelling a ground in the form of a triangle having the side 51m,37m and 20m at the rate of 3 per meter square is 918. State whether the statement is true or false and justify your answer.

Q.7 The perimeter of an isosceles triangle is 32cm. The ratio of the equal side to its base is 3:2. Find the area of the triangle.

Q.8 The length of the sides of a triangle are 7cm, 13cm and 12cm. Find the length of perpendicular from the opposite vertex to the side whose length is 12 cm.

Q.9 The perimeter of a triangle is 50 cm. One side of a triangle is 4 cm longer than the smaller side and the third side is 6cm less than twice the smaller side. Find the area of the triangle.

Q.10 If each side of a triangle is doubled, then find the ratio of area of the new triangle thus formed and the given triangle.